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## Patent Abstracts of Japan

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TITLE : COSMETIC

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a cosmetic which has markedly improved dispersibility and weathering resistance, excels in transparency and UV screening ability and does not have blue color and discoloration by formulating specific fine Ti dioxide particles coated with Ce oxide and Al oxide into the original cosmetic.

SOLUTION: Titanium dioxide of fine particles coated with hydrated Ce oxide (3-20wt.% in terms of  $\text{CeO}_2$  based on the Ti dioxide) as an inner layer of the coating, and with hydrated Al oxide (3-20wt.% in terms of  $\text{Al}_2\text{O}_3$  based on the Ti dioxide) as an outer layer is formulated into the original cosmetic. The above coated Ti dioxide fine particles are prepared by the following process: Ti dioxide of  $\leq 0.1\text{-}\mu\text{m}$  average particle size is added to water, while stirring, to form slurry, followed by adjusting the concentration of the Ti dioxide to 100-300g/l, and adding an aqueous Ce salt solution to the slurry to deposit hydrated Ce oxide on to the surfaces of the Ti dioxide particles by such a way as to neutralize the slurry with a base. Then, while maintaining the slurry at pH5-8, the film of hydrated Ce oxide is coated with hydrated Al oxide.

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